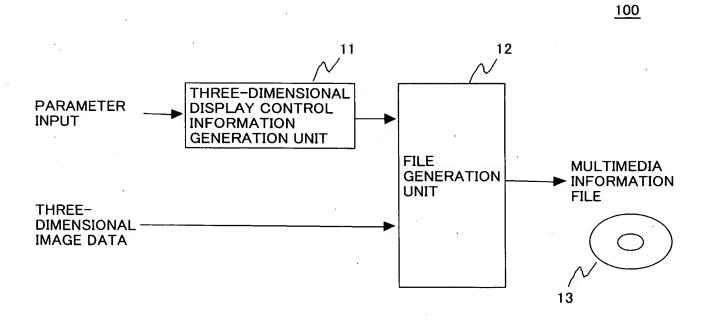
FIG.2



200

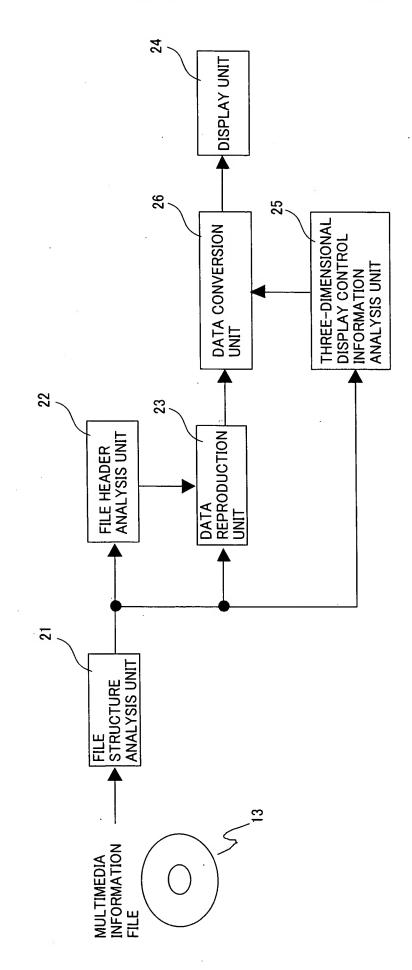


FIG.3

#### FIG.4A

OBJECT ID : ID INDICATING THREE-DIMENSIONAL DISPLAY CONTROL

INFORMATION

OBJECT SIZE: SIZE OF THIS INFORMATION OBJECT

NUMBER OF VIEWPOINTS : 2

VIEWPOINT POSITION L : STREAM NUMBER 2 VIEWPOINT POSITION R : STREAM NUMBER 3

DIRECTION OF THINNING : HORIZONTAL DIRECTION

CAMERA ARRANGEMENT : PARALLEL

PARALLAX AMOUNT SHIFT LIMIT :  $\pm 16$  PIXELS

BORDER DISPLAY : YES

BORDER IMAGE DATA : PATTERN 2
PARALLAX IMAGE SWITCHING PITCH : 1 SUB PIXEL

SAMPLING PATTERN : RESOLUTION PRIORITY

IMAGE ARRANGEMENT : LEFT AND RIGHT, SIDE BY SIDE

(IMAGE FOR LEFT EYE ON LEFT SIDE)

REVERSAL : IMAGE ON RIGHT SIDE TO BE REVERSED

:

## FIG.4B

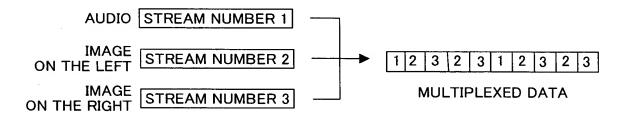


FIG.4C

INDEX	MEANING	
0	NO THINNING .	
1	HORIZONTAL DIRECTION	
2	VERTICAL DIRECTION	
3	HORIZONTAL AND VERTICAL DIRECTIONS	



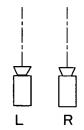


FIG.5B

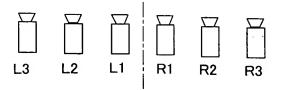
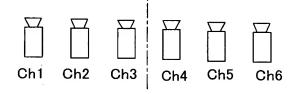


FIG.5C



## FIG.6

**OBJECT ID** : ID INDICATING THREE-DIMENSIONAL DISPLAY CONTROL INFORMATION **OBJECT SIZE** SIZE OF THIS INFORMATION OBJECT NUMBER OF VIEWPOINTS 6 **VIEWPOINT POSITION 1** STREAM NUMBER 2 VIEWPOINT POSITION 2 STREAM NUMBER 3 VIEWPOINT POSITION 3 STREAM NUMBER 4 VIEWPOINT POSITION 4 STREAM NUMBER 5 VIEWPOINT POSITION 5 STREAM NUMBER 6 VIEWPOINT POSITION 6 STREAM NUMBER 7 DIRECTION OF THINNING HORIZONTAL DIRECTION

## FIG.7A

OBJECT ID : ID INDICATING THREE-DIMENSIONAL

DISPLAY CONTROL INFORMATION

OBJECT SIZE : SIZE OF THIS INFORMATION OBJECT

NUMBER OF VIEWPOINTS : 2

VIEWPOINT POSITION L : STREAM NUMBER 2 VIEWPOINT POSITION R : STREAM NUMBER 2

DIRECTION OF THINNING : HORIZONTAL DIRECTION

FIG.7B

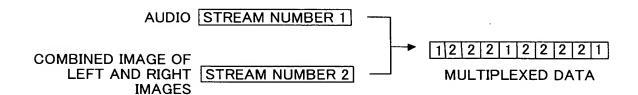


FIG.8A

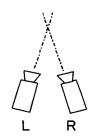


FIG.8B

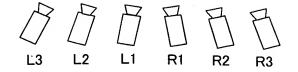


FIG.8C

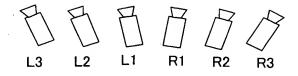
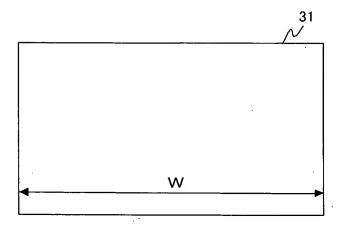


FIG.9A



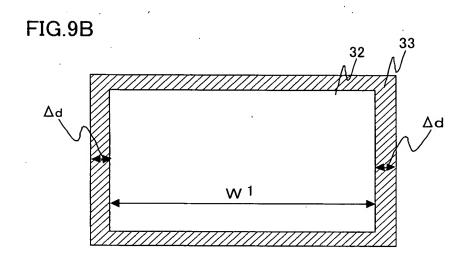


FIG.10A

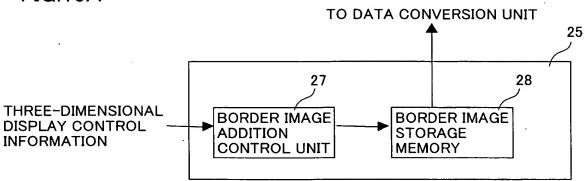


FIG.10B

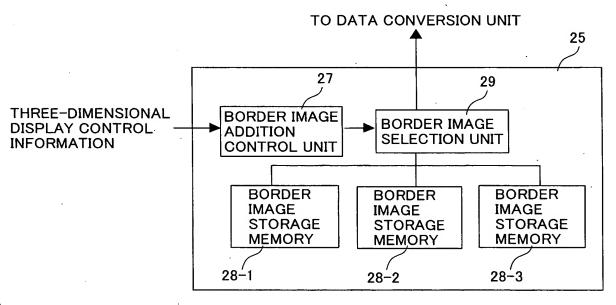


FIG.10C

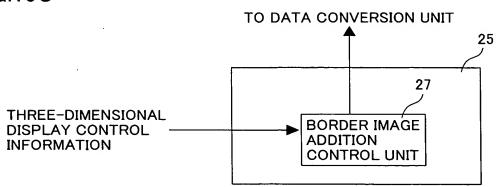


FIG.11A

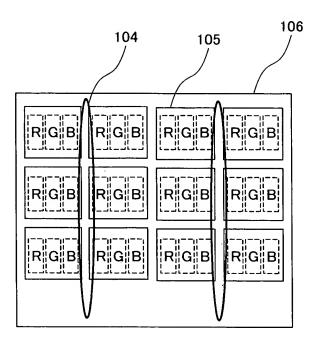


FIG.11C

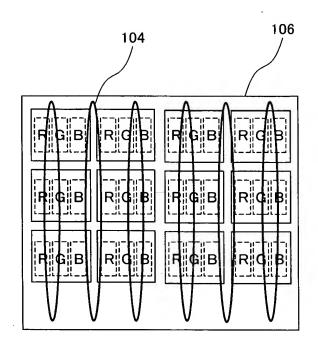


FIG.11B

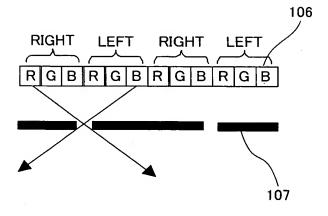


FIG.11D

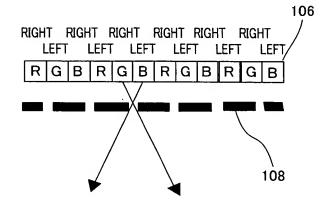
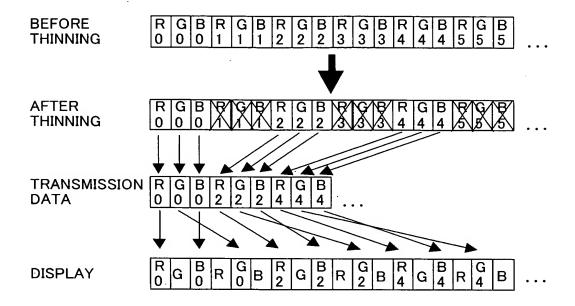


FIG.12A



## FIG.12B

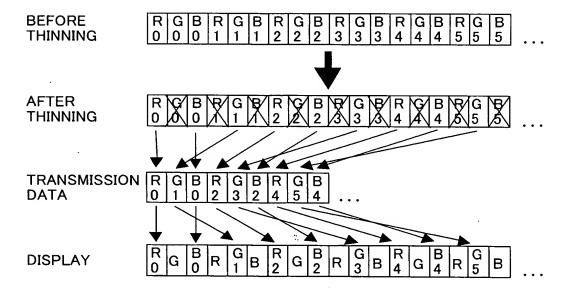


FIG.13A

FIG.13C

IMAGE FOR LEFT EYE RIGHT EYE

IMAGE FOR LEFT EYE

IMAGE FOR RIGHT EYE

FIG.13B

IMAGE FOR RIGHT EYE LEFT EYE

FIG.13D

IMAGE FOR RIGHT EYE

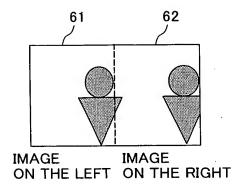
IMAGE FOR LEFT EYE

FIG.13E

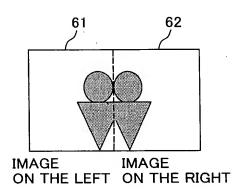
IMAGE FOR LEFT EYE

IMAGE FOR RIGHT EYE

FIG.14A



# FIG.14B



#### FIG.15

OBJECT ID : ID FOR VERSATILE INFORMATION OBJECT

OBJECT SIZE : SIZE OF THIS INFORMATION OBJECT

THREE-DIMENSION IDENTIFICATION

INFORMATION : 3D -001 NUMBER OF VIEWPOINTS : 2

VIEWPOINT POSITION L : STREAM NUMBER 2 VIEWPOINT POSITION R : STREAM NUMBER 3

DIRECTION OF THINNING : HORIZONTAL DIRECTION

CAMERA ARRANGEMENT : PARALLEL

PARALLAX AMOUNT SHIFT LIMIT : ±16 PIXELS

BORDER DISPLAY : YES

BORDER IMAGE DATA : PATTERN 2
PARALLAX IMAGE SWITCHING PITCH : 1 SUB PIXEL

SAMPLING PATTERN : RESOLUTION PRIORITY

IMAGE ARRANGEMENT : LEFT AND RIGHT, SIDE BY SIDE

(IMAGE FOR LEFT EYE ON LEFT SIDE)

REVERSAL : IMAGE ON RIGHT SIDE TO BE REVERSED

:

#### **FIG.16**

OBJECT ID : ID FOR VERSATILE INFORMATION OBJECT

OBJECT SIZE : SIZE OF THIS INFORMATION OBJECT

THREE-DIMENSION IDENTIFICATION

INFORMATION : 3D -001

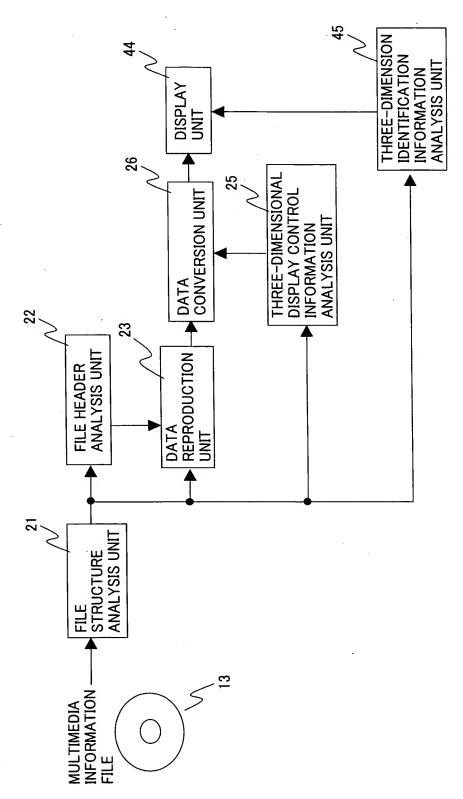
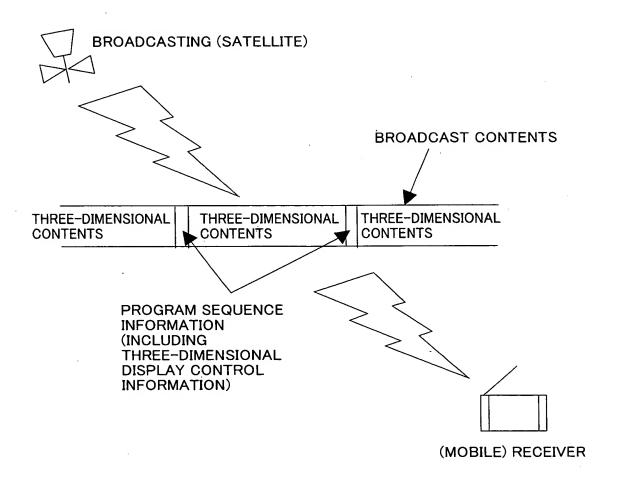


FIG. 1.

FIG.18



# FIG.19

# MULTIMEDIA INFORMATION FILE

HEADER CONTROL INFORMATION	7_1
THREE-DIMENSION IDENTIFICATION INFORMATION	-2-4
THREE-DIMENSIONAL DISPLAY CONTROL INFORMATION	<u></u>
THREE-DIMENSIONAL IMAGE DATA	3

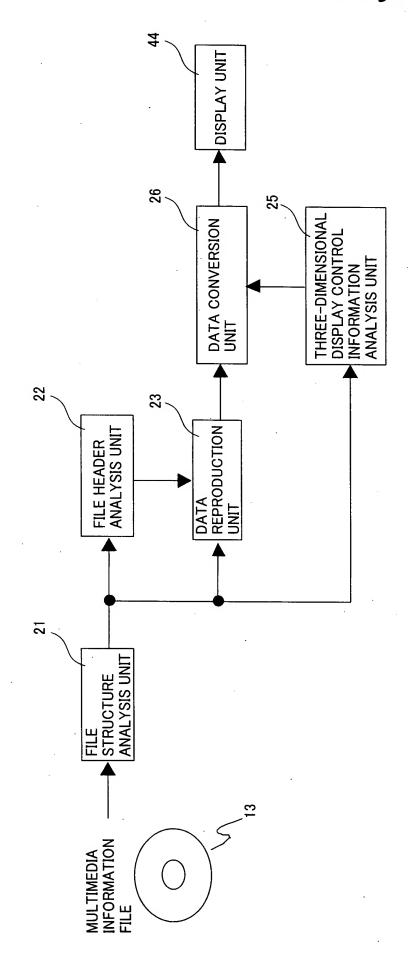
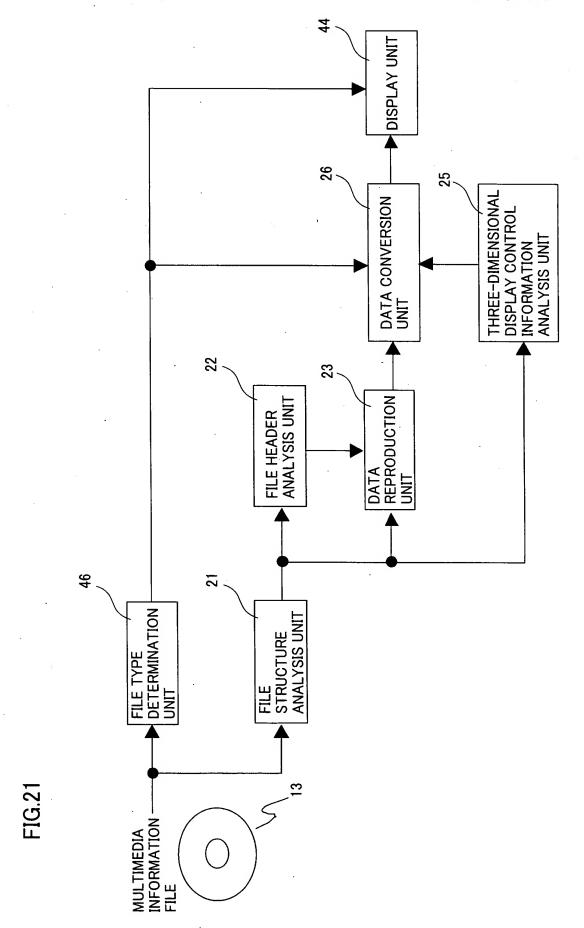


FIG.20



#### FIG.22A

OBJECT ID

: ID INDICATING THREE-DIMENSIONAL DISPLAY CONTROL

**INFORMATION** 

OBJECT SIZE : SIZE OF THIS INFORMATION OBJECT

NUMBER OF VIEWPOINTS : 2

VIEWPOINT POSITION L

: STREAM NUMBER 2

VIEWPOINT POSITION R

: STREAM NUMBER 3

DIRECTION OF THINNING

OF IMAGE FOR LEFT EYE

: NO THINNING

DIRECTION OF THINNING

OF IMAGE FOR RIGHT EYE: HORIZONTAL DIRECTION

CAMERA ARRANGEMENT : PARALLEL

PARALLAX AMOUNT SHIFT LIMIT

: ± 16 PIXELS

**BORDER DISPLAY** 

: YES

BORDER IMAGE DATA

: PATTERN 2

PARALLAX IMAGE SWITCHING PITCH

: 1 SUB PIXEL

SAMPLING PATTERN

: RESOLUTION PRIORITY : LEFT AND RIGHT, SIDE BY SIDE

IMAGE ARRANGEMENT

(IMAGE FOR LEFT EYE ON LEFT SIDE)

REVERSAL

: IMAGE ON RIGHT SIDE TO BE REVERSED

FIG.22B

**IMAGE FOR** LEFT EYE

**IMAGE FOR** RIGHT EYE

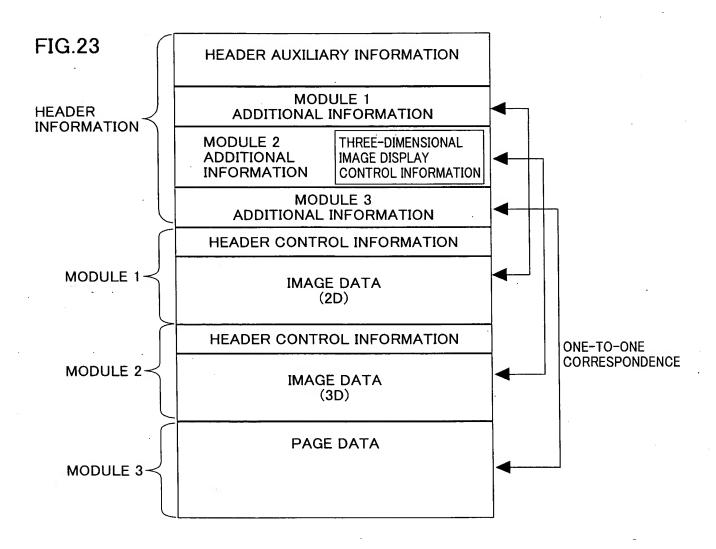
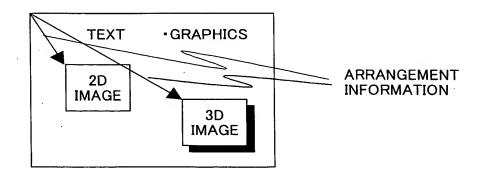
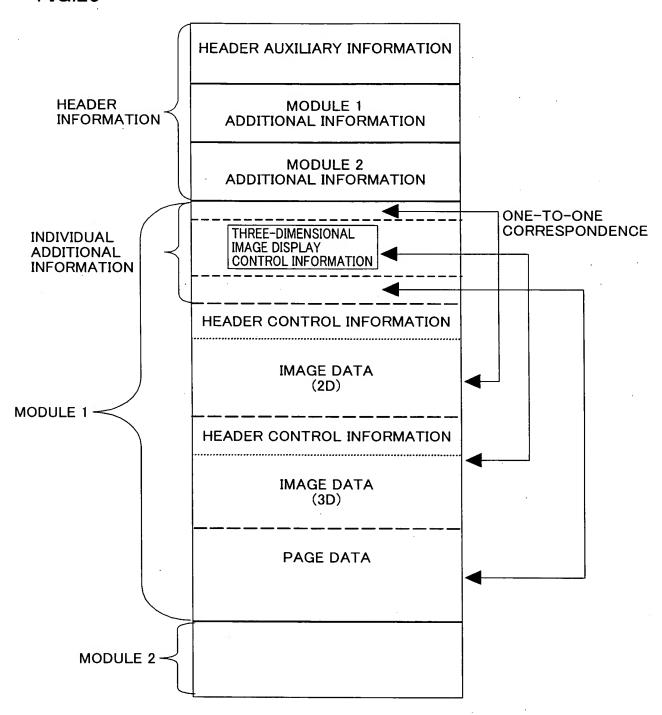
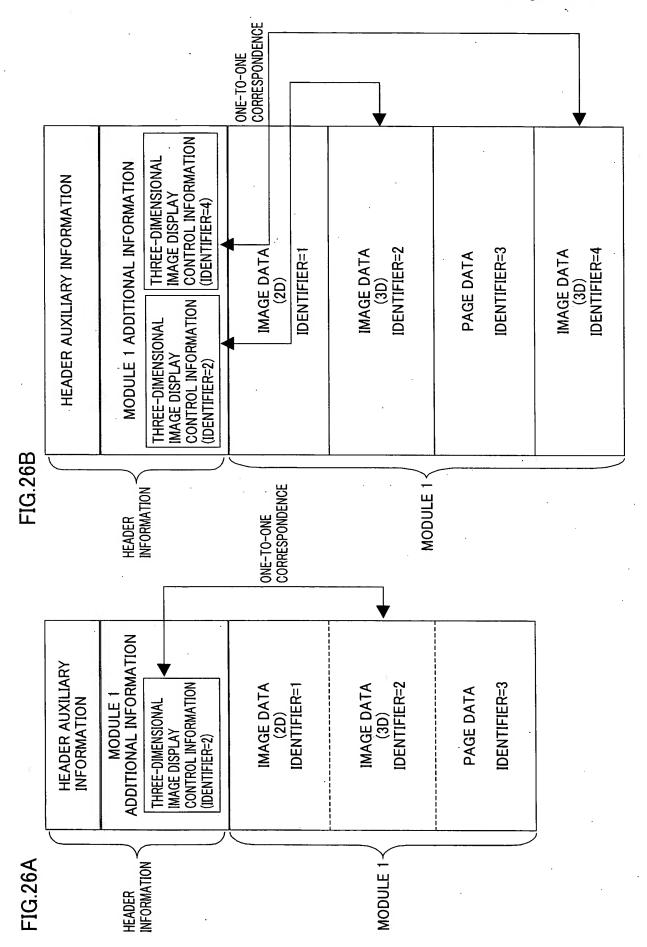


FIG.24



**FIG.25** 





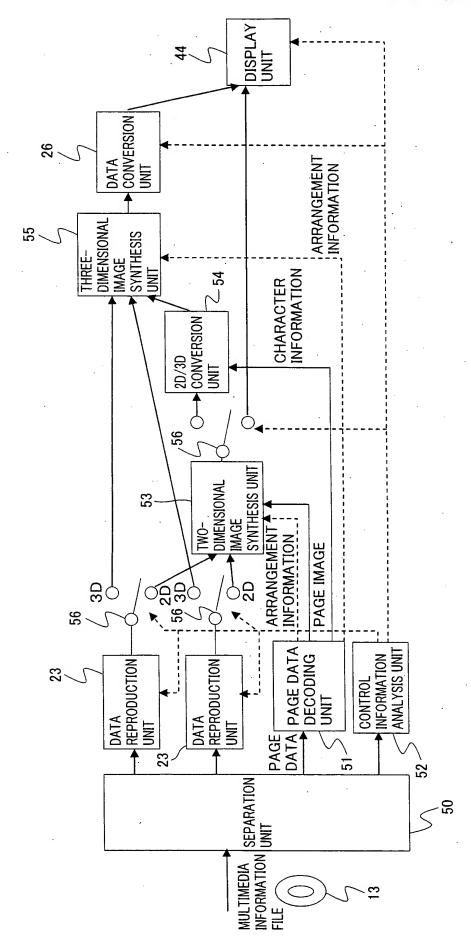


FIG.2

FIG.28

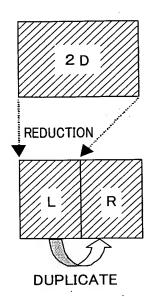


FIG.29A

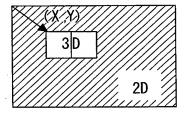
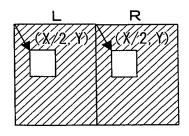


FIG.29B



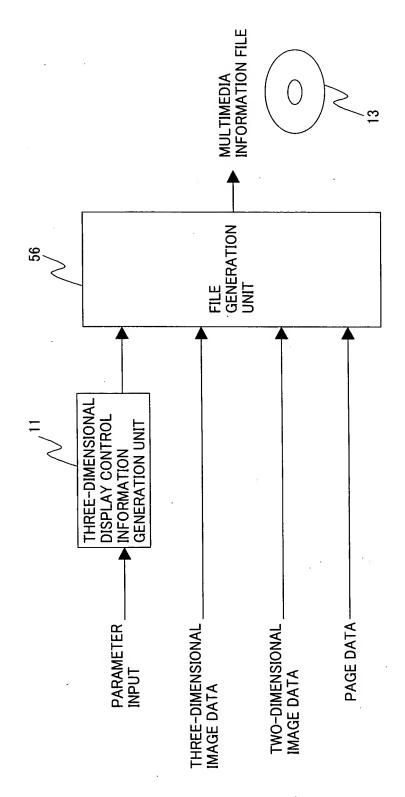
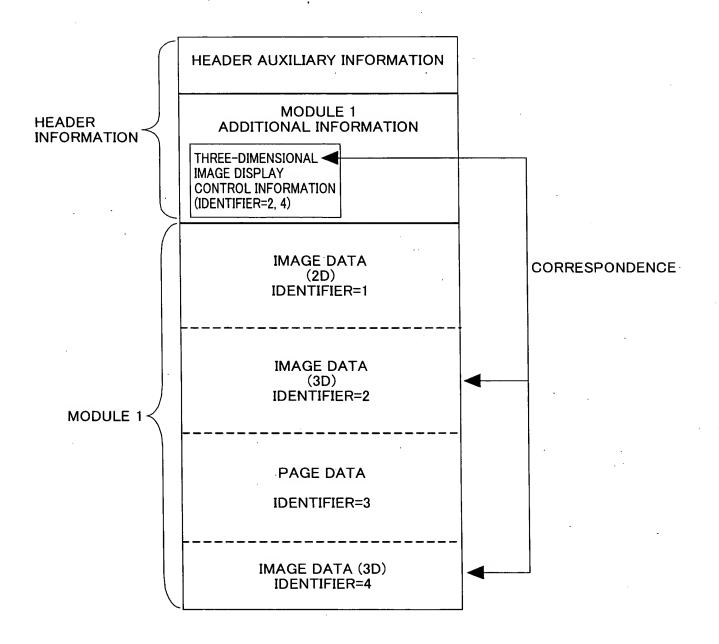


FIG.30

FIG.31



**FIG.32** 

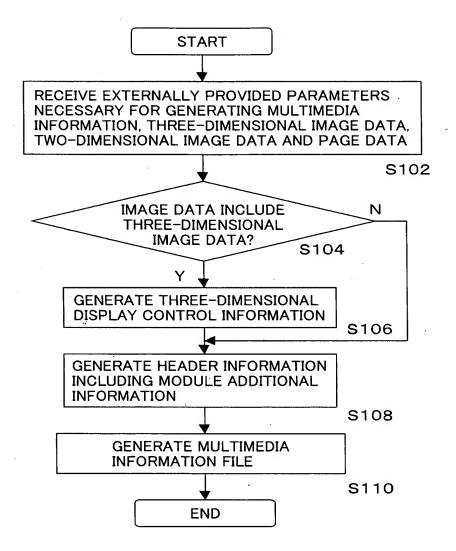
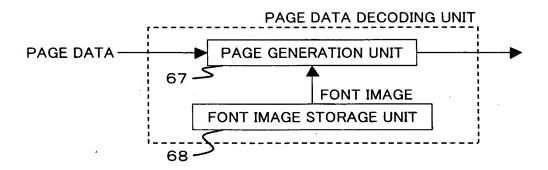
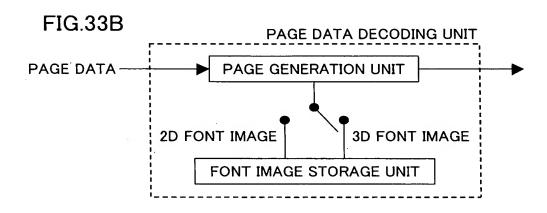
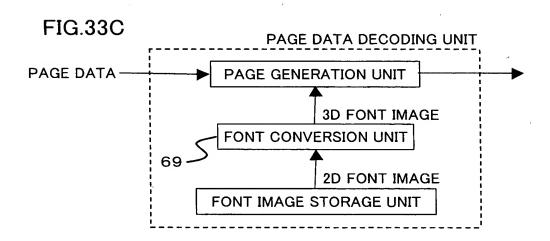
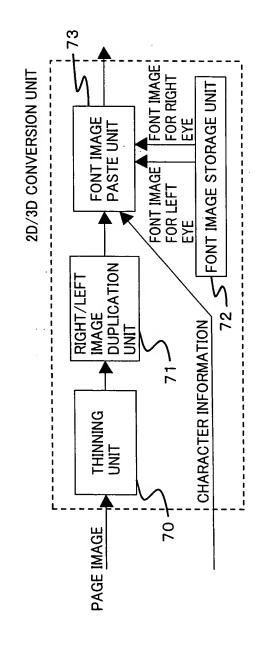


FIG.33A









-1G.34

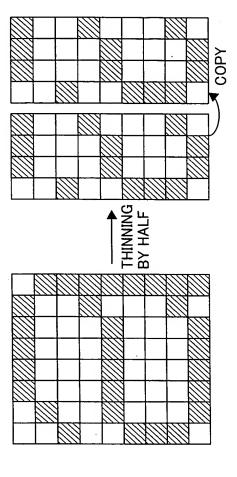


FIG 35

FIG.36

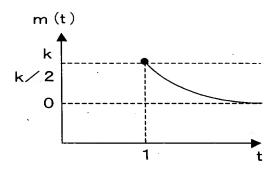


FIG.37A

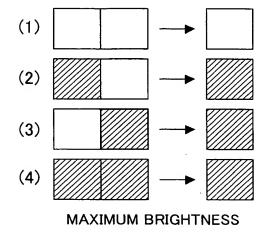


FIG.37B

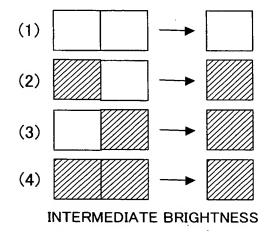
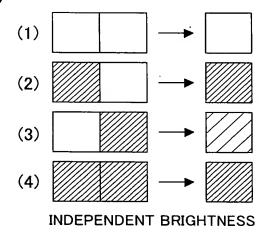
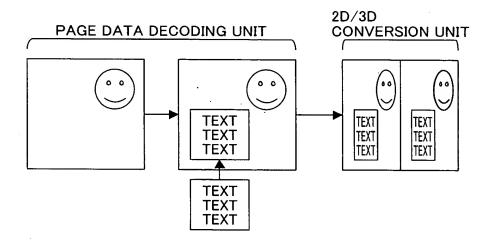


FIG.37C



PRIOR ART FIG.43A FIG.43B PRIOR ART 101 102 FIG.43C PRIOR ART 103

# FIG.38A



# FIG.38B

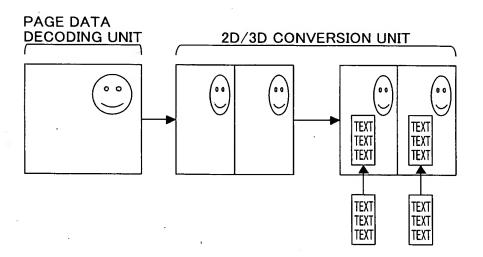
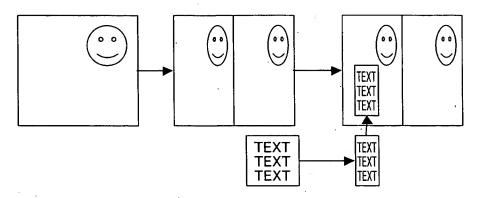


FIG.39A

303 - -



2 Jan 1 " 8 19 6.

FIG.39B

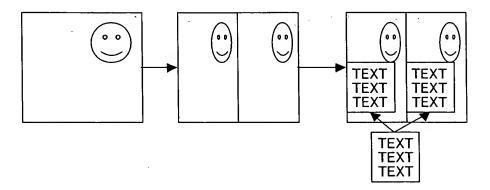


FIG.39C

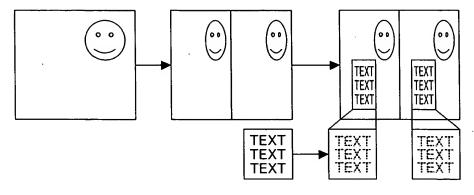


FIG.40

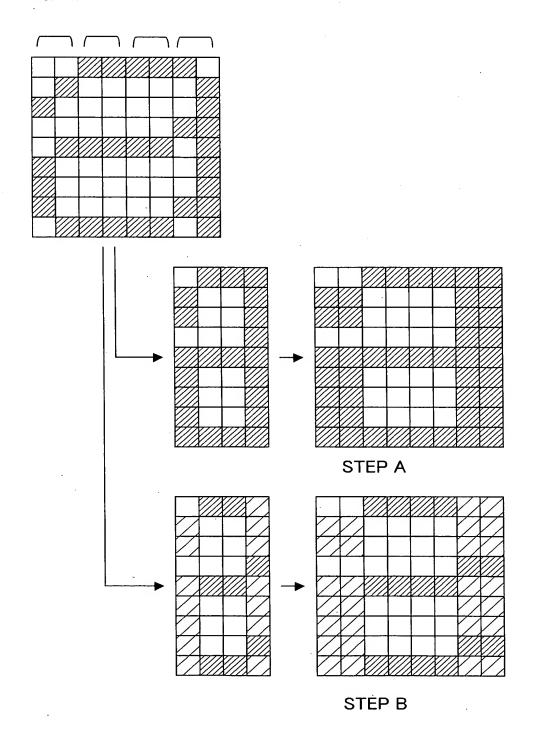


FIG.41 PRIOR ART

LEFT RIGHT LEFT RIGHT LEFT RIGHT LEFT RIGHT LEFT RIGHT
RIGHT LEFT

FIG.42A PRIOR ART

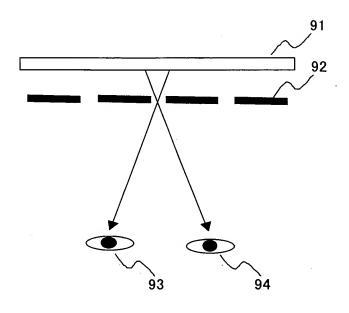


FIG.42B PRIOR ART

